

WHAT IS CLAIMED IS:

1 1. For use in a wireless mobile station having predetermined
2 capabilities, an apparatus for converting Web page Hypertext Markup
3 Language (HTML) data into reformatted data that is suitable for
4 rendering on a display of the wireless mobile station, the
5 apparatus comprising:

6 memory that contains downloaded Web page HTML data, an
7 HTML filter, and an HTML translation script; and

8 a controller, coupled to the memory, that is capable of
9 executing the HTML filter such that the HTML filter generates the
10 reformatted data from the Web page HTML data in response to the
11 HTML translation script and the predetermined capabilities, the
12 controller is further capable of rendering the reformatted data on
13 the screen.

1 2. The apparatus as set forth in Claim 1 further comprising
2 a radio frequency transceiver that transmits and receives radio
3 frequency signals representative of the Web page HTML data that is
4 downloaded from a Web site.

1 3. The apparatus as set forth in Claim 1 wherein the
2 predetermined capabilities include the wireless station's display
3 size, display resolution, color capabilities, and audio
4 capabilities.

1 4. The apparatus as set forth in Claim 1 further comprising
2 a browser application in memory that is executed by the controller
3 such that the browser application requests the Web page HTML data
4 to be downloaded from a Web site and the browser application
5 further informs the HTML filter of a location of the Web site.

1 5. The apparatus as set forth in Claim 4 wherein the memory
2 further includes a plurality of HTML translation scripts and the
3 controller is capable of selecting a first HTML translation script
4 in response to the Web page HTML data.

1 6. The apparatus as set forth in Claim 4 wherein the
2 controller is capable of downloading the HTML translation script
3 from the Web site.

1 7. The apparatus as set forth in Claim 1 wherein the memory
2 further comprises a database of the predetermined capabilities for
3 use by the controller.

1 8. For use in a network server, an apparatus that reformats
2 hypertext markup language (HTML) data for rendering on a mobile
3 station having predetermined capabilities including a display, the
4 apparatus comprising:

5 memory that contains Web page HTML data, an HTML filter,
6 and an HTML translation script; and

7 a data processor, coupled to the memory, that is capable
8 of executing the HTML filter such that the HTML filter generates
9 the reformatted HTML data from the Web page HTML data in response
10 to the HTML translation script and the predetermined capabilities,
11 the data processor is further capable of transmitting the
12 reformatted HTML data to the mobile station for rendering on the
13 display.

1 9. The apparatus as set forth in Claim 8 wherein the
2 predetermined capabilities include the wireless station's display
3 size, display resolution, color capabilities, and audio
4 capabilities.

1 10. The apparatus as set forth in Claim 8 further comprising
2 a proxy application in memory that is executed by the data
3 processor such that the proxy application requests the Web page
4 HTML data to be downloaded from a Web site and the browser
5 application further informs the HTML filter of a location of the
6 Web site.

1 11. The apparatus as set forth in Claim 8 wherein the memory
2 further includes a plurality of HTML translation scripts and the
3 data processor is capable of selecting a first HTML translation
4 script in response to the Web page HTML data.

1 12. The apparatus as set forth in Claim 8 wherein the memory
2 further comprises a database of the predetermined capabilities for
3 use by the data processor.

1 13. The apparatus as set forth in Claim 12 wherein the data
2 processor is capable of determining the predetermined capabilities
3 of the mobile station in response to a mobile station
4 identification transmitted to the apparatus.

- 1 14. The apparatus as set forth in Claim 8 wherein the data
- 2 processor is coupled to the Internet.

1 15. For use in a wireless mobile station having predetermined
2 capabilities and memory that stores a hypertext markup language
3 (HTML) filter, a method of rendering Web page HTML data into a
4 format suitable for a display of the wireless mobile station, the
5 method comprising the steps of:

6 requesting a Web page, comprising HTML data, from a
7 content provider having a network address;

8 informing the HTML filter of the content provider's
9 network address;

10 retrieving an HTML translation script that is associated
11 with the Web page;

12 the HTML filter generating a reformatted Web page from
13 the Web page HTML data in response to the HTML translation script
14 and the predetermined capabilities; and

15 rendering the reformatted Web page on the display.

1 16. The method as set forth in Claim 15 wherein the step of
2 retrieving the HTML translation script comprises downloading the
3 HTML translation script from the content provider.

1 17. The method as set forth in Claim 15 wherein the step of
2 retrieving the HTML translation script comprises downloading the
3 HTML translation script from a translation script storage server.

1 18. The method as set forth in Claim 15 wherein the step of
2 retrieving the HTML translation script comprises selecting the HTML
3 translation script from the mobile station's memory.

1 19. The method as set forth in Claim 15 wherein the
2 predetermined capabilities are stored in a database in the mobile
3 station's memory.

1 20. For use in a network server having memory that stores a
2 hypertext markup language (HTML) filter and an HTML translation
3 script, a method of rendering Web page HTML data into a format
4 suitable for a display of a wireless mobile station having
5 predetermined capabilities, the method comprising the steps of:

6 requesting a Web page, comprising HTML data, from a
7 content provider having a network address;

8 informing the HTML filter of the content provider's
9 network address;

10 retrieving an HTML translation script that is associated
11 with the Web page;

12 the HTML filter generating a reformatted Web page from
13 the Web page HTML data in response to the HTML translation script
14 and the predetermined capabilities; and

15 transmitting the reformatted Web page to the mobile
16 station.

1 21. The method as set forth in Claim 20 wherein the
2 predetermined capabilities are associated with an identification of
3 the mobile station in the network server memory.